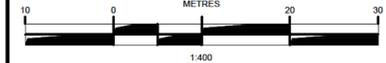


LEGEND

| EXISTING | VERTICAL PROFILE | PROPOSED |
|----------|---------------------------------------|----------|
| --- | APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT | --- |
| --- | EASEMENT | --- |
| WAE | WATER PIPE | WA |
| SAE | SANITARY PIPE | SA |
| STAE | STORM PIPE | ST |
| --- | WATER LATERAL | --- |
| --- | SANITARY LATERAL | --- |
| --- | STORM LATERAL | --- |
| OH | OVERHEAD LINE | OH |
| --- | SIDEWALK | --- |
| --- | WALKWAY/T. TRAIL | --- |
| --- | GUARDRAIL | --- |
| X | FENCELINE | X |
| --- | TOP OF SLOPE | --- |
| --- | BOTTOM OF SLOPE | --- |
| --- | EXISTING PROPOSED | --- |
| --- | CURB CUT/RAMP | --- |
| --- | CURBSTOP | --- |
| --- | REDUCER | --- |
| --- | PRECAST HEADWALL | --- |
| --- | STREET SIGN | --- |
| --- | STREET TREE | --- |
| --- | AIR RELEASE VALVE | --- |
| --- | WATER VALVE | --- |
| --- | HYDRANT | --- |
| --- | CATCHBASIN | --- |
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| --- | URD | --- |

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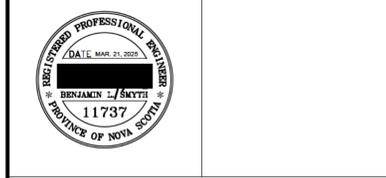
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| 1 | JULY 8, 2024 | ISSUED FOR PERMIT | |

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CLIENT

PROJECT DESCRIPTION

SERVICING SCHEMATIC

DARTMOUTH, NOVA SCOTIA

SHEET DESCRIPTION

15 KENNEDY DRIVE

| | | | |
|---------------------|-----------------------------|-----------------------|---------------------|
| Drawn J. BUGTONG | Engineer B. SMYTH | Project No. 24-238 | Drawing No. C-01 |
| Scale 1:400 | Filename 24-238_Base.dwg | | 01 of 02 |

WASTE WATER CALCULATION

| | |
|-------------------------|-------------------------------------|
| BOTH BUILDINGS: | SAFETY FACTOR - 1.25 |
| SITE AREA - 1.43 Ha | INFILTRATION ALLOWANCE - 0.28L/s/ha |
| UNIT COUNT - 250 | DOMESTIC LOAD - 300L/PER |
| DENSITY - 2.25 PER/UNIT | PEAKING FACTOR - 3.55 |

TOTAL POPULATION - 563
TOTAL PEAK FLOW RESIDENTIAL = 10.0L/s
TOTAL CAPACITY OF 200mm Ø PVC PIPE: 60.3 L/s
VELOCITY AT PEAK FLOW = 1.42m/s
*CAPACITY BASED ON 2.0% SLOPE

- #### NOTES:
- PROPERTY LINES BASED ON DESIGNPOINT SURVEY 24-238-SV-T1, DATED MAY 14, 2024.
 - ALL WORKS TO BE IN ACCORDANCE WITH HALIFAX WATER DESIGN AND CONSTRUCTION SPECIFICATIONS AND HALIFAX REGIONAL MUNICIPALITY MUNICIPAL DESIGN GUIDELINES (CURRENT EDITIONS).
 - ALL WORKS TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR MUNICIPAL SERVICES" PREPARED JOINTLY BY THE NOVA SCOTIA ROADBUILDERS ASSOCIATION AND THE CONSULTING ENGINEERS OF NOVA SCOTIA (CURRENT EDITION).
 - ALL WORKS TO BE IN ACCORDANCE WITH REQUIREMENTS OF ALL PERMITS AND REGULATIONS AS ISSUED BY THE NOVA SCOTIA DEPARTMENT OF ENVIRONMENT.
 - LOCATIONS OF EXISTING INFRASTRUCTURE ARE BASED ON BEST AVAILABLE INFORMATION, INCLUDING RECORD INFORMATION, AND ARE APPROXIMATE.
 - DRAWINGS SUBJECT TO APPROVAL BY THE APPLICABLE APPROVAL AGENCIES (i.e. HALIFAX WATER, NOVA SCOTIA DEPARTMENT OF ENVIRONMENT, HALIFAX REGIONAL MUNICIPALITY) PRIOR TO CONSTRUCTION.
 - PROPOSED PIPE SIZES AND LOCATIONS ARE PRELIMINARY AND SUBJECT TO DETAILED DESIGN AND APPROVAL, AND COORDINATION WITH MECHANICAL DESIGNER.
 - STORMWATER MANAGEMENT MEASURES REQUIRED TO COMPLY WITH THE HALIFAX STORMWATER MANAGEMENT STANDARDS FOR DEVELOPMENT ACTIVITIES TO BE REVIEWED AND DETERMINED AS PART OF DETAILED DESIGN.
 - STORMWATER BALANCING REQUIRED TO BALANCE POST DEVELOPMENT AND PRE-DEVELOPMENT FLOWS.

| TSS REMOVAL | | | | |
|--------------|-----------------------------|------------------|---|------------|
| Upstream BMP | Downstream BMP | REMOVAL RATE (%) | TOTAL EFFECTIVE REMOVAL (m ²) | |
| n/a | Manufactured Treatment unit | 85 | 6001 | 85% |
| | | | 6001 | 85% |

| SURFACE CLASSIFICATION (SITE ONLY) | | |
|------------------------------------|-----------------------|------------------------|
| SURFACE | PRE (m ²) | POST (m ²) |
| CONCRETE/ASPHALT | 4045 | 4427 |
| BUILDING | 1443 | 4032 |
| WOODS or LANDSCAPING | 8855 | 5887 |

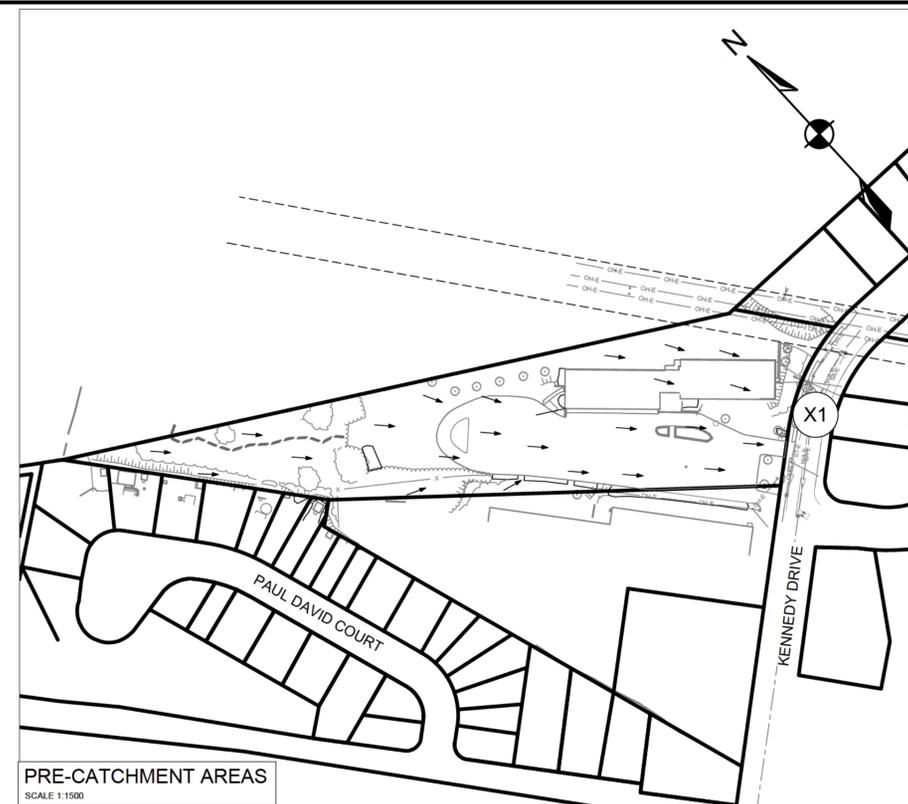
| CATCHMENT AREAS | | |
|-----------------|------|----|
| CATCHMENT | AREA | CN |
| A1 | 7060 | 80 |
| A2 | 7286 | 98 |

| SUBCATCHMENT AREAS AND SCS PARAMETERS | | | |
|---------------------------------------|----------------------|----|-----------|
| Area ID | Area, m ² | CN | tc (min.) |
| X1 | 14343 | 87 | 10 |

| PRE/POST DEVELOPMENT STORM DISCHARGES FROM SITE (L/S) | | | | | |
|---|---------------|----------------|----------------|----------------|-----------------|
| | 5-Year Return | 10-Year Return | 25-Year Return | 50-Year Return | 100-Year Return |
| Pre | 196 | 235 | 284 | 318 | 354 |
| Post | 183 | 218 | 261 | 290 | 322 |

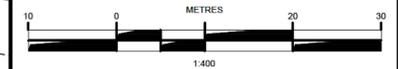
DESIGN FLOW BASED ON SCS WATERSHED RUNOFF MODEL WITH SYNTHETIC DESIGN STORM AS PER HALIFAX WATER 2023 SPECIFICATIONS. 24 HR RAINFALL DEPTHS AS FOLLOWS:

- 2 YEAR RETURN: 100 mm
- 5 YEAR RETURN: 124 mm
- 10 YEAR RETURN: 145 mm
- 25 YEAR RETURN: 169 mm
- 50 YEAR RETURN: 188 mm
- 100 YEAR RETURN: 204 mm



| LEGEND | | |
|----------|---------------------------------------|----------|
| EXISTING | | PROPOSED |
| --- | VERTICAL PROFILE | --- |
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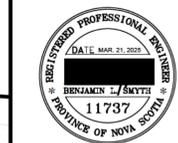
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| Drawn J. BUGTONG | Engineer B. SMYTH | Project No. 24-238 | Drawing No. C-02 |
| Scale 1:500 | Filename 24-238_SPD.dwg | | 02 of 02 |